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Search HistoryDATE: Monday, February 11, 2002 [Printable Copy](#) [Create Case](#)**Set Name Query**
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result set*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR*L6 protohe\$ and L5 14 L6L5 protoporphyrin\$ and oxidas\$ and inhibi\$ and growt\$ 93 L5*DB=PGPB; PLUR=YES; OP=OR*L4 schallner and zitzmann 1 L4L3 2002012960 0 L3*DB=USPT; PLUR=YES; OP=OR*L2 5300526 1 L2L1 5891669 1 L1

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Search Results - Record(s) 1 through 10 of 14 returned.☐ 1. Document ID: US 6308458 B1

L6: Entry 1 of 14

File: USPT

Oct 30, 2001

US-PAT-NO: 6308458

DOCUMENT-IDENTIFIER: US 6308458 B1

TITLE: Herbicide-tolerant plants and methods of controlling the growth of undesired vegetation

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Volrath; Sandra L.	Durham	NC		
Johnson; Marie A.	Wendell	NC		
Ward; Eric R.	Durham	NC		
Heifetz; Peter B.	Durham	NC		

US-CL-CURRENT: 504/246; 504/116.1, 504/240, 504/243, 504/265, 504/281, 504/283, 800/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Drawn Desc	Image										

☐ 2. Document ID: US 6307129 B1

L6: Entry 2 of 14

File: USPT

Oct 23, 2001

US-PAT-NO: 6307129

DOCUMENT-IDENTIFIER: US 6307129 B1

TITLE: Herbicide tolerant plants, plant tissue or plant cells having altered protoporphyrinogen oxidase activity

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ward; Eric R.	Basel			CHX
Volrath; Sandra	Durham	NC		

US-CL-CURRENT: 800/300.1; 800/278, 800/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Drawn Desc	Image										

☐ 3. Document ID: US 6288306 B1

L6: Entry 3 of 14

File: USPT

Sep 11, 2001

US-PAT-NO: 6288306

DOCUMENT-IDENTIFIER: US 6288306 B1

TITLE: Methods of selecting plants, plant tissue or plant cells resistant to a protoporphyrinogen oxidase inhibitor

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ward; Eric R.	Basel			CHX
Volrath; Sandra	Durham	NC		

US-CL-CURRENT: 800/300; 435/413, 435/419, 800/278

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Drawn Desc	Image										

☐ 4. Document ID: US 6282837 B1

L6: Entry 4 of 14

File: USPT

Sep 4, 2001

US-PAT-NO: 6282837

DOCUMENT-IDENTIFIER: US 6282837 B1

TITLE: Methods of controlling the growth of undesired vegetation with herbicide tolerant plants or plant seeds having altered protoporphyrinogen oxidase activity

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ward; Eric R.	Basel			CHX
Volrath; Sandra	Durham	NC		

US-CL-CURRENT: 504/224; 504/243, 504/285, 800/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Drawn Desc	Image									

☐ 5. Document ID: US 6177245 B1

L6: Entry 5 of 14

File: USPT

Jan 23, 2001

US-PAT-NO: 6177245

DOCUMENT-IDENTIFIER: US 6177245 B1

TITLE: Manipulation of protoporphyrinogen oxidase enzyme activity in eukaryotic organisms

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ward; Eric R.	Basel			CHX
Volrath; Sandra	Durham	NC		

US-CL-CURRENT: 435/6; 536/23.1, 536/24.3, 536/24.31, 536/24.32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 6. Document ID: US 6084155 A

L6: Entry 6 of 14

File: USPT

Jul 4, 2000

US-PAT-NO: 6084155

DOCUMENT-IDENTIFIER: US 6084155 A

TITLE: Herbicide-tolerant protoporphyrinogen oxidase ("protox") genes

DATE-ISSUED: July 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Volrath; Sandra L.	Durham	NC		
Johnson; Marie A.	Raleigh	NC		
Ward; Eric R.	Durham	NC		
Heifetz; Peter B.	Durham	NC		

US-CL-CURRENT: 800/300; 435/320.1, 435/419, 435/440, 536/23.2, 536/23.6, 800/306, 800/312, 800/314, 800/317.3, 800/320, 800/320.1, 800/320.2, 800/320.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 7. Document ID: US 6023012 A

L6: Entry 7 of 14

File: USPT

Feb 8, 2000

US-PAT-NO: 6023012

DOCUMENT-IDENTIFIER: US 6023012 A

TITLE: DNA molecules encoding plant protoporphyrinogen oxidase

DATE-ISSUED: February 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Volrath; Sandra L.	Durham	NC		
Johnson; Marie A.	Raleigh	NC		
Potter; Sharon L.	Raleigh	NC		
Ward; Eric R.	Durham	NC		
Heifetz; Peter B.	Durham	NC		

US-CL-CURRENT: 800/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC

☐ 8. Document ID: US 6018105 A

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File: USPT

Jan 25, 2000

US-PAT-NO: 6018105

DOCUMENT-IDENTIFIER: US 6018105 A

TITLE: Promoters from plant protoporphyrinogen oxidase genes

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Marie A.	Raleigh	NC		
Volrath; Sandra L.	Durham	NC		
Ward; Eric R.	Durham	NC		

US-CL-CURRENT: 800/298; 435/320.1, 435/419, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 9. Document ID: US 5939602 A

L6: Entry 9 of 14

File: USPT

Aug 17, 1999

US-PAT-NO: 5939602

DOCUMENT-IDENTIFIER: US 5939602 A

TITLE: DNA molecules encoding plant protoporphyrinogen oxidase and inhibitor-resistant mutants thereof

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Volrath; Sandra L.	Durham	NC		
Johnson; Marie A.	Raleigh	NC		
Ward; Eric R.	Durham	NC		
Heifetz; Peter B.	Durham	NC		

US-CL-CURRENT: 800/300; 435/320.1, 435/419, 435/440, 435/468, 536/23.2, 536/23.6, 800/278

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 10. Document ID: US 5891669 A

L6: Entry 10 of 14

File: USPT

Apr 6, 1999

US-PAT-NO: 5891669

DOCUMENT-IDENTIFIER: US 5891669 A

TITLE: Methods for producing polypeptides in respiratory-deficient cells

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jensen; Ejner Bech	Virum			DKX
Cherry; Joel R.	Davis	CA		
Elrod; Susan L.	Davis	CA		

US-CL-CURRENT: 435/69.1; 435/183, 435/190, 435/193, 435/198, 435/199, 435/201, 435/207,
435/208, 435/212, 435/219, 435/220, 435/224, 435/225, 435/252.3, 435/254.11,
435/254.21, 435/254.22, 435/254.23, 435/254.3, 435/254.4, 435/254.5, 435/455, 435/463

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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L6: Entry 11 of 14

File: USPT

Jun 16, 1998

US-PAT-NO: 5767373

DOCUMENT-IDENTIFIER: US 5767373 A

TITLE: Manipulation of protoporphyrinogen oxidase enzyme activity in eukaryotic organisms

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ward; Eric R.	Basel			CHX
Volrath; Sandra	Durham	NC		

US-CL-CURRENT: 800/300; 435/418, 435/419, 435/69.1, 536/23.6, 800/298, 800/300.1,
800/306, 800/312, 800/314, 800/317.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
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☐ **12. Document ID: US 5300526 A**

L6: Entry 12 of 14

File: USPT

Apr 5, 1994

US-PAT-NO: 5300526

DOCUMENT-IDENTIFIER: US 5300526 A

TITLE: Porphyric insecticides

DATE-ISSUED: April 5, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rebeiz; Constantin A.	Urbana	IL		
Juvik; John A.	Champaign	IL		
Rebeiz; Carole C.	Urbana	IL		

US-CL-CURRENT: 514/561; 514/292, 514/334, 514/557

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
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☐ 13. Document ID: US 5200427 A

L6: Entry 13 of 14

File: USPT

Apr 6, 1993

US-PAT-NO: 5200427

DOCUMENT-IDENTIFIER: US 5200427 A

TITLE: Porphyric insecticides

DATE-ISSUED: April 6, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rebeiz; Constantin A.	Urbana	IL		
Juvik; John A.	Champaign	IL		
Rebeiz; Carole C.	Urbana	IL		

US-CL-CURRENT: 514/561; 514/292, 514/334, 514/557

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 14. Document ID: CA 2266807 A1, EP 955380 A2, AU 9923649 A, JP 11346787 A

L6: Entry 14 of 14

File: DWPI

Oct 10, 1999

DERWENT-ACC-NO: 1999-612726

DERWENT-WEEK: 200012

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TITLE: Evaluating ability of compounds to inhibit protoporphyrinogen oxidase activity for development of herbicides

INVENTOR: NISHIO, S; SHIMOKAWATOKO, Y

PRIORITY-DATA: 1998JP-0099619 (April 10, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2266807 A1	October 10, 1999	E	000	C12N015/53
EP 955380 A2	November 10, 1999	E	046	C12Q001/68
AU 9923649 A	October 21, 1999		000	C12N015/53
JP 11346787 A	December 21, 1999		029	C12N015/09

INT-CL (IPC): A01 H 5/00; C12 N 1/21; C12 N 5/10; C12 N 9/02; C12 N 9/04; C12 N 9/99; C12 N 15/09; C12 N 15/53; C12 Q 1/02; C12 Q 1/26; C12 Q 1/68; C12 N 1/21; C12 R 1/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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L1: Entry 1 of 1

File: USPT

Apr 6, 1999

US-PAT-NO: 5891669

DOCUMENT-IDENTIFIER: US 5891669 A

TITLE: Methods for producing polypeptides in respiratory-deficient cells

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jensen; Ejner Bech	Virum			DKX
Cherry; Joel R.	Davis	CA		
Elrod; Susan L.	Davis	CA		

US-CL-CURRENT: 435/69.1, 435/183, 435/190, 435/193, 435/198, 435/199, 435/201, 435/207,
435/208, 435/212, 435/219, 435/220, 435/224, 435/225, 435/252.3, 435/254.11,
435/254.21, 435/254.22, 435/254.23, 435/254.3, 435/254.4, 435/254.5, 435/455, 435/463

CLAIMS:

What is claimed is:

1. A method for producing a polypeptide, comprising:

(a) cultivating a respiratory-defective mutant of a bacterial or fungal cell, wherein the mutant cell comprises a nucleic acid construct comprising one or more first nucleic acid sequences and a second nucleic acid sequence in which the first nucleic acid sequence upon expression complements the respiratory defect and the second nucleic acid sequence encodes the polypeptide, in a culture medium under aerobic conditions suitable for expression of the first and second nucleic acid sequences; and

(b) isolating the polypeptide from the cultivation medium of the mutant cell.

2. The method according to claim 1, wherein the first nucleic acid sequence encodes a protein which is a component of the electron transport chain.

3. The method according to claim 1, wherein the first nucleic acid sequence encodes an enzyme involved in the biosynthesis of ubiquinone.

4. The method according to claim 1, wherein the first nucleic acid sequence encodes an enzyme involved in the biosynthesis of flavin.

5. The method according to claim 1, wherein the first nucleic acid sequence encodes an enzyme involved in the biosynthesis of heme.

6. The method according to claim 1, wherein the first and second nucleic acid sequences are contained on the same vector.

7. The method according to claim 1, wherein the first nucleic acid sequence is contained on a first vector and the second nucleic acid sequence is contained on a second vector.

8. The method according to claim 1, wherein the polypeptide is native or heterologous to the mutant cell.

9. The method according to claim 1, wherein the polypeptide is an enzyme, a hormone, a hormone variant, a receptor or a portion thereof, an antibody or a portion thereof, or a reporter.
10. The method according to claim 1, wherein the bacterial cell is a *Bacillus*, *Pseudomonas*, or *Streptomyces* cell.
11. The method according to claim 1, wherein the fungal cell is a filamentous fungal cell.
12. The method according to claim 1, wherein the fungal cell is a yeast cell.
13. The method according to claim 2, wherein the component is NADH-Q reductase.
14. The method according to claim 2, wherein the component is cytochrome reductase.
15. The method according to claim 2, wherein the component is cytochrome c.
16. The method according to claim 2, wherein the component is cytochrome oxidase.
17. The method according to claim 14, wherein the component is cytochrome b or cytochrome c.sub.1.
18. The method according to claim 16, wherein the component is cytochrome a or cytochrome a.sub.3.
19. The method according to claim 5, wherein the first nucleic acid sequence encodes an enzyme selected from the group consisting of 5-aminolevulinic acid synthase, porphobilinogen synthase, porphobilinogen deaminase, uroporphyrinogen synthase, uroporphyrinogen decarboxylase, coproporphyrinogen oxidase, protoporphyrinogen oxidase, ferrochelatase, glutamate-tRNA.sub.glu synthetase, glutamate-tRNA.sub.glu reductase and glutamate 1-semialdehyde aminotransferase.
20. The method according to claim 9, wherein the enzyme is an oxidoreductase, a transferase, a hydrolase, a lyase, an isomerase, or a ligase.
21. The method according to claim 20, wherein the enzyme is an aminopeptidase, amylase, carbohydrase, carboxypeptidase, catalase, cellulase, chitinase, cyclodextrin glycosyltransferase, cutinase, deoxyribonuclease, esterase, alpha-galactosidase, beta-galactosidase, glucoamylase, alpha-glucosidase, beta-glucosidase, glutaminase, haloperoxidase, invertase, laccase, lipase, mannosidase, mutanase, oxidase, pectinolytic enzyme, peroxidase, phytase, polyphenoloxidase, proteolytic enzyme, ribonuclease, transglutaminase, or xylanase.
22. The method according to claim 11, wherein the filamentous fungal cell is an *Acremonium*, *Aspergillus*, *Fusarium*, *Humicola*, *Myceliophthora*, *Mucor*, *Neurospora*, *Penicillium*, *Thielavia*, *Tolypocladium*, or *Trichoderma* cell.
23. The method according to claim 12, wherein the yeast cell is a *Candida*, *Kluyveromyces*, *Saccharomyces*, *Schizosaccharomyces*, *Pichia*, or *Yarrowia* cell.
24. A respiratory-deficient mutant of a bacterial or filamentous fungal cell comprising a first nucleic acid sequence which comprises a modification of at least one of the genes essential to oxidative phosphorylation, wherein the mutant is respiratory-deficient compared to the cell when cultured under the same conditions.
25. The respiratory-deficient mutant according to claim 24 which is ubiquinone-deficient.
26. The respiratory-deficient mutant according to claim 24 which is flavin-deficient.
27. The respiratory-deficient mutant according to claim 24 which is heme-deficient.
28. A method for obtaining a respiratory-deficient mutant of a bacterial or filamentous fungal cell, comprising
- (a) introducing into the bacterial or filamentous fungal cell a nucleic acid sequence comprising a modification of at least one of the genes essential to oxidative phosphorylation, wherein the native gene is disrupted by homologous recombination of

the introduced modified gene into the native gene; and

(b) identifying a mutant of the cell from step (a) comprising the nucleic acid sequence, wherein the mutant is respiratory-deficient when cultured under the same conditions as the cell.

29. The method according to claim 28, wherein the respiratory-deficient mutant is a ubiquinone-deficient mutant.

30. The method according to claim 28, wherein the respiratory-deficient mutant is a flavin-deficient mutant.

31. The method according to claim 28, wherein the respiratory-deficient mutant is a heme-deficient mutant.

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L5 7 S L4 AND PROTOHEM?

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NEWS 24 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update
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F19	56	USPATFULL
F20	38	JICST-EPLUS
F21	34	IFIPAT
F22	33	BIOBUSINESS
F23	25	BIOTECHABS
F24	25	BIOTECHDS
F25	22	CANCERLIT
F26	11	PHIN
F27	8	CEABA-VTB
F28	8	NIOSHTIC
F29	7	ANABSTR
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F31	6	CIN
F32	6	CONFSCI
F33	5	BIOCOMMERCE
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F36	4	DDFU
F37	3	AQUASCI
F38	1	ADISALERTS
F39	1	ADISNEWS
F40	1	CEN
F41	1	EMBAL
F42	1	FROSTI
F43	1	IPA

=> file f1-f25

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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1.56

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FILE 'CANCERLIT' ENTERED AT 16:37:41 ON 11 FEB 2002

=> s protoporphyrinog? and oxidas?

16 FILES SEARCHED...

L2 4140 PROTOPORPHYRINOG? AND OXIDAS?

=> dup rem l2

DUPLICATE IS NOT AVAILABLE IN 'DGENE, GENBANK'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING IS APPROXIMATELY 49% COMPLETE FOR L2

PROCESSING IS APPROXIMATELY 75% COMPLETE FOR L2

PROCESSING IS APPROXIMATELY 93% COMPLETE FOR L2

PROCESSING COMPLETED FOR L2

L3 1884 DUP REM L2 (2256 DUPLICATES REMOVED)

=> s l3 and inhibi?

7 FILES SEARCHED...

13 FILES SEARCHED...

L4 993 L3 AND INHIBI?

=> s l4 and protohem?

L5 7 L4 AND PROTOHEM?

=> d ti l5 1-7

L5 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS

TI A method for evaluating the ability of a compound to **inhibit** the
protoporphyrinogen oxidase activity

L5 ANSWER 2 OF 7 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The complete genome sequence of the gram-positive
bacterium Bacillus subtilis

TITLE (TI): Direct Submission

L5 ANSWER 3 OF 7 TOXLIT

TI A method for evaluating the ability of a compound to **inhibit** the
protoporphyrinogen oxidase activity.

L5 ANSWER 4 OF 7 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD

TI The Role of Porphyrin Synthesis Regulation in the Mechanism of Action of
Acifluorfen-Methyl in Lemna paucicostata.

L5 ANSWER 5 OF 7 USPATFULL

TI Methods for producing polypeptides in respiratory-deficient cells

L5 ANSWER 6 OF 7 USPATFULL

TI Porphyrin insecticides

L5 ANSWER 7 OF 7 USPATFULL

TI Porphyrin insecticides

=> d l5 1-7

L5 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS

AN 1999:722796 CAPLUS

DN 131:333000

TI A method for evaluating the ability of a compound to **inhibit** the
protoporphyrinogen oxidase activity

IN Shimokawatoko, Yasutaka; Nishio, Shoichi

PA Sumitomo Chemical Company, Limited, Japan

SO Eur. Pat. Appl., 46 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 955380	A2	19991110	EP 1999-107037	19990409
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AU 9923649	A1	19991021	AU 1999-23649	19990408
	JP 11346787	A2	19991221	JP 1999-102534	19990409
PRAI	JP 1998-99619		19980410		

L5 ANSWER 2 OF 7 GENBANK.RTM. COPYRIGHT 2002

LOCUS (LOC): BSUB0006 GenBank (R)
GenBank ACC. NO. (GBN): Z99109 AL009126
CAS REGISTRY NO. (RN): 200244-90-2
SEQUENCE LENGTH (SQL): 210440
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Bacteria
DATE (DATE): 26 Nov 1997
DEFINITION (DEF): Bacillus subtilis complete genome (section 6 of 21):
from 999501 to 1209940.
SOURCE: Bacillus subtilis.
ORGANISM (ORGN): Bacillus subtilis
Bacteria; Firmicutes; Bacillus/Clostridium group;
Bacillus/Staphylococcus group; Bacillus
NUCLEIC ACID COUNT (NA): 59717 a 44291 c 50368 g 56064 t
REFERENCE: 1 (bases 1 to 210440)
AUTHOR (AU): Kunst,F.; Ogasawara,N.; Moszer,I.; Albertini,A.M.;
Alloni,G.; Azevedo,V.; Bertero,M.G.; Bessieres,P.;
Bolotin,A.; Borchert,S.; Borriess,R.; Boursier,L.;
Brans,A.; Braun,M.; Brignell,S.C.; Bron,S.;
Brouillet,S.; Bruschi,C.V.; Caldwell,B.; Capuano,V.;
Carter,N.M.; Choi,S.K.; Codani,J.J.; Connerton,I.F.;
Cummings,N.J.; Daniel,R.A.; Denizot,F.; Devine,K.M.;
Dusterhoft,A.; Ehrlich,S.D.; Emmerson,P.T.;
Entian,K.D.; Errington,J.; Fabret,C.; Ferrari,E.;
Foulger,D.; Fritz,C.; Fujita,M.; Fujita,Y.; Fuma,S.;
Galizzi,A.; Galleron,N.; Ghim,S.Y.; Glaser,P.;
Goffeau,A.; Golightly,E.J.; Grandi,G.; Guiseppe,G.;
Guy,B.J.; Haga,K.; Haiech,J.; Harwood,C.R.; Henaut,A.;
Hilbert,H.; Holsappel,S.; Hosono,S.; Hullo,M.F.;
Itaya,M.; Jones,L.; Joris,B.; Karamata,D.; Kasahara,Y.;
Klaerr-Blanchard,M.; Klein,C.; Kobayashi,Y.;
Koetter,P.; Koningstein,G.; Krogh,S.; Kumano,M.;
Kurita,K.; Lapidus,A.; Lardinois,S.; Lauber,J.;
Lazarevic,V.; Lee,S.M.; Levine,A.; Liu,H.; Masuda,S.;
Mauel,C.; Medigue,C.; Medina,N.; Mellado,R.P.;
Mizuno,M.; Moestl,D.; Nakai,S.; Noback,M.; Noone,D.;
O'Reilly,M.; Ogawa,K.; Ogiwara,A.; Oudega,B.;
Park,S.H.; Parro,V.; Pohl,T.M.; Portetelle,D.;
Porwollik,S.; Prescott,A.M.; Presecan,E.; Pujic,P.;
Purnelle,B.; Rapoport,G.; Rey,M.; Reynolds,S.;
Rieger,M.; Rivolta,C.; Rocha,E.; Roche,B.; Rose,M.;
Sadaie,Y.; Sato,T.; Scanlan,E.; Schleich,S.;
Schroeter,R.; Scoffone,F.; Sekiguchi,J.; Sekowska,A.;
Seror,S.J.; Serror,P.; Shin,B.S.; Soldo,B.; Sorokin,A.;
Tacconi,E.; Takagi,T.; Takahashi,H.; Takemaru,K.;
Takeuchi,M.; Tamakoshi,A.; Tanaka,T.; Terpstra,P.;
Tognoni,A.; Tosato,V.; Uchiyama,S.; Vandebol,M.;
Vannier,F.; Vassarotti,A.; Viari,A.; Wambutt,R.;
Wedler,E.; Wedler,H.; Weitzenegger,T.; Winters,P.;
Wipat,A.; Yamamoto,H.; Yamane,K.; Yasumoto,K.; Yata,K.;

Yoshida, K.; Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A.

TITLE (TI): The complete genome sequence of the gram-positive bacterium *Bacillus subtilis*

JOURNAL (SO): Nature, 390 (6657), 249-256 (1997)

OTHER SOURCE (OS): CA 128:150233

REFERENCE: 2 (bases 1 to 210440)

AUTHOR (AU): Kunst, F.; Ogasawara, N.; Yoshikawa, H.; Danchin, A.

TITLE (TI): Direct Submission

JOURNAL (SO): Submitted (18-NOV-1997) I. Moszer, A. Danchin, Institut Pasteur, Regulation de l'Expression Genetique, 28 rue du Docteur Roux, 75724 Paris Cedex 15, FRANCE. E-mail: moszer@pasteur.fr, adanchin@pasteur.fr Phone: +33 (0)1 45 68 84 41, Fax: +33 (0)1 45 68 89 48

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..210440	/organism="Bacillus subtilis" /strain="168" /db-xref="taxon:1423"
gene	369..1721	/gene="yhxA"
CDS	369..1721	/gene="yhxA" /function="unknown" /note="similar to adenosylmethionine-8-amino-7-oxonanoate aminotransferase" /codon-start=1 /transl-table=11 /protein-id="CAB12765.1" /db-xref="GI:2633261" /translation="MEMMGMENIQQNQGLKQKDE QFVWHAMKGAHQADSLIAQKAEGA WVTDTDGRRYLDAMSGLWCVNIGYGRKELAEAA YEQLKELPYYPILTQSHAPAIQLAEK LNEWLGGDYVIFFSNSGSEANETAFKIQYHLQ NGDHSRYKFISRYRAYHGNTLGAL SATGQAQRKYKYEPLSQGFLHAAPPDIYRNPDDA DTLESANEIDRIMTWELSETIAGV IMEPIITGGGILMPDPGYMKKVEDICRRHGALLI CDEVICGFGRTGEPFGFMHYGVKP DIITMAKGITSAYLPLSATAVKRDIFEAYQGEAP YDRFRHVNTFGGSPAACALALKNL QIMEDEQLIQSRDLGAKLLGELQALREHPAVGD VRGKGLLIGIELVKDKLTKEPADA AKVNQVVAACKEKGLIIGKNGDTVAGYNNVIHVA PPFCLTEEDLSFIVKTVKESFQTI "
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CDS	1749..2327	/gene="glpP" /function="control of mRNA stability of glpD" /codon-start=1 /transl-table=11 /product="transcription antiterminator" /protein-id="CAB12766.1" /db-xref="GI:2633262" /db-xref="SWISS-PROT:P30300" /translation="MMSFHNQPILPAIRNMKQFD EFLNSSFSYGVILDIHLGQLKQVI KEAQKHGKNMMVHVDLIQGIKHDEYGAEFICQDI KPAGIISTRNVIAKAKQKKIYAI QRLFLDTSAMEKSMEFIGKHKPDFIEVLPGIVP

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terminator 6642..6675
terminator 6655..6672
gene 6779..8512
CDS 6779..8476

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FVTAKTKEGIAAGLSEKDAKQLAI
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ALINLFNEYGFYREGLKSLTLK GK
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terminator 8488..8512
gene 8625..9764
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CDS	9761..10405	
gene	10402..10926	
CDS	10402..10926	
terminator	complement(10914..10935	
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CDS 11384..11707

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(FILE 'HOME' ENTERED AT 16:35:30 ON 11 FEB 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:35:44 ON
11 FEB 2002

SEA PROTOPORPHYRINOG? AND OXIDAS?

1 FILE ADISALERTS
1 FILE ADISNEWS
100 FILE AGRICOLA
7 FILE ANABSTR
3 FILE AQUASCI
33 FILE BIOBUSINESS
5 FILE BIOCOMMERCE
348 FILE BIOSIS
25 FILE BIOTECHABS
25 FILE BIOTECHDS
127 FILE BIOTECHNO
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8 FILE CEABA-VTB
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6 FILE CONFSCI
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122 FILE ESBIODASE
1 FILE FROSTI
390 FILE GENBANK
34 FILE IFIPAT
38 FILE JICST-EPLUS
84 FILE LIFESCI
221 FILE MEDLINE
8 FILE NIOSHTIC
165 FILE PASCAL
11 FILE PHIN
7 FILE PROMT
360 FILE SCISEARCH
217 FILE TOXCENTER
248 FILE TOXLIT
56 FILE USPATFULL
63 FILE WPIDS
63 FILE WPINDEX
1 FILE IPA
5 FILE NLDB

L1 QUE PROTOPORPHYRINOG? AND OXIDAS?

FILE 'DGENE, CAPLUS, GENBANK, SCISEARCH, BIOSIS, TOXLIT, MEDLINE, CROPU,
TOXCENTER, EMBASE, PASCAL, CABA, BIOTECHNO, ESBIODBASE, AGRICOLA, LIFESCI,
WPIDS, USPATFULL, JICST-EPLUS, IFIPAT, BIOBUSINESS, BIOTECHDS, CANCERLIT'
ENTERED AT 16:37:41 ON 11 FEB 2002

L2 4140 S PROTOPORPHYRINOG? AND OXIDAS?
L3 1884 DUP REM L2 (2256 DUPLICATES REMOVED)
L4 993 S L3 AND INHIBI?
L5 7 S L4 AND PROTOHEM?

=> d ti l5 1-7

L5 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS
TI A method for evaluating the ability of a compound to **inhibit** the
protoporphyrinogen oxidase activity

L5 ANSWER 2 OF 7 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The complete genome sequence of the gram-positive
bacterium Bacillus subtilis
TITLE (TI): Direct Submission

L5 ANSWER 3 OF 7 TOXLIT
TI A method for evaluating the ability of a compound to **inhibit** the
protoporphyrinogen oxidase activity.

L5 ANSWER 4 OF 7 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI The Role of Porphyrin Synthesis Regulation in the Mechanism of Action of
Acifluorfen-Methyl in Lemna paucicostata.

L5 ANSWER 5 OF 7 USPATFULL
TI Methods for producing polypeptides in respiratory-deficient cells

L5 ANSWER 6 OF 7 USPATFULL
TI Porphyrin insecticides

L5 ANSWER 7 OF 7 USPATFULL
TI Porphyrin insecticides

=> d l5 1 3-7

L5 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1999:722796 CAPLUS
DN 131:333000
TI A method for evaluating the ability of a compound to **inhibit** the
protoporphyrinogen oxidase activity

IN Shimokawatoko, Yasutaka; Nishio, Shoichi
PA Sumitomo Chemical Company, Limited, Japan
SO Eur. Pat. Appl., 46 pp.
CODEN: EPXXDW

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 955380	A2	19991110	EP 1999-107037	19990409
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AU 9923649	A1	19991021	AU 1999-23649	19990408
	JP 11346787	A2	19991221	JP 1999-102534	19990409
PRAI	JP 1998-99619		19980410		

L5 ANSWER 3 OF 7 TOXLIT
 AN 1999:94608 TOXLIT
 DN CA-131-333000G
 TI A method for evaluating the ability of a compound to **inhibit** the
protoporphyrinogen oxidase activity.
 AU Shimokawatoko Y; Nishio S
 SO (1999). Eur. Pat. Appl. PATENT NO. 955380 11/10/1999 (Sumitomo Chemical
 Company, Limited).
 CODEN: EPXXDW.
 CY JAPAN
 DT Patent
 FS CA
 LA English
 OS CA 131:333000
 EM 199912

L5 ANSWER 4 OF 7 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 AN 1991-82062 CROPU H
 TI The Role of Porphyrin Synthesis Regulation in the Mechanism of Action of
 Acifluorfen-Methyl in Lemna paucicostata.
 AU Duke S O; Duke M V; Matsumoto H
 LO Stoneville, Miss., USA; Tsukuba, Jap.
 SO Abstr.Meet.Weed Sci.Soc.Am. (31, 58, 1991)
 AV USDA/ARS, Stoneveille, Mississippi, U.S.A.
 DT Conference
 LA English
 FA LA; CT

L5 ANSWER 5 OF 7 USPATFULL
 AN 1999:43417 USPATFULL
 TI Methods for producing polypeptides in respiratory-deficient cells
 IN Jensen, Ejner Bech, Virum, Denmark
 Cherry, Joel R., Davis, CA, United States
 Elrod, Susan L., Davis, CA, United States
 PA Novo Nordisk A/S, Novoalle,, Bagsvaerd, Denmark (non-U.S. corporation)
 Novo Nordisk Biotech, Davis, CA, United States (U.S. corporation)
 PI US 5891669 19990406
 AI US 1997-819458 19970317 (8)
 DT Utility
 FS Granted
 LN.CNT 1950
 INCL INCLM: 435/069.100
 INCLS: 435/455.000; 435/463.000; 435/183.000; 435/201.000; 435/198.000;
 435/190.000; 435/193.000; 435/207.000; 435/208.000; 435/212.000;
 435/199.000; 435/219.000; 435/220.000; 435/224.000; 435/225.000;
 435/252.300; 435/254.110; 435/254.210; 435/254.220; 435/254.230;
 435/254.300; 435/254.400; 435/254.500
 NCL NCLM: 435/069.100
 NCLS: 435/183.000; 435/190.000; 435/193.000; 435/198.000; 435/199.000;
 435/201.000; 435/207.000; 435/208.000; 435/212.000; 435/219.000;
 435/220.000; 435/224.000; 435/225.000; 435/252.300; 435/254.110;
 435/254.210; 435/254.220; 435/254.230; 435/254.300; 435/254.400;
 435/254.500; 435/455.000; 435/463.000
 IC [6]
 ICM: C12P021-00
 ICS: C12N001-19; C12N001-21; C12N009-10
 EXF 435/69.1; 435/6; 435/172.1; 435/172.3; 435/183; 435/320.1; 435/325;
 435/252.3; 435/254.11; 435/254.2; 435/254.3; 435/455; 435/463; 435/201;
 435/198; 435/190; 435/193; 435/207; 435/208; 435/212; 435/199; 435/219;
 435/220; 435/224; 435/225; 435/254.21; 435/254.22; 435/254.23;
 435/254.4; 435/254.5
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 7 USPATFULL
 AN 94:28772 USPATFULL
 TI Porphyrin insecticides
 IN Rebeiz, Constantin A., Urbana, IL, United States
 Juvik, John A., Champaign, IL, United States
 Rebeiz, Carole C., Urbana, IL, United States
 PA The Board of Trustees of the University of Illinois, Urbana, IL, United States (U.S. corporation)
 PI US 5300526 19940405
 AI US 1991-795367 19911120 (7)
 RLI Division of Ser. No. US 1989-294132, filed on 9 Jan 1989, now patented, Pat. No. US 5200427 which is a continuation-in-part of Ser. No. US 1988-144883, filed on 13 Jan 1988, now abandoned which is a continuation-in-part of Ser. No. US 1986-895529, filed on 11 Aug 1986, now patented, Pat. No. US 5127938 which is a continuation of Ser. No. US 1985-754092, filed on 15 Jul 1985, now abandoned which is a continuation-in-part of Ser. No. US 1984-634932, filed on 27 Jul 1984, now abandoned
 DT Utility
 FS Granted
 LN.CNT 1465
 INCL INCLM: 514/561.000
 INCLS: 514/292.000; 514/334.000; 514/557.000
 NCL NCLM: 514/561.000
 NCLS: 514/292.000; 514/334.000; 514/557.000
 IC [5]
 ICM: A01N037-44
 EXF 514/292; 514/334; 514/561; 514/557
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 7 USPATFULL
 AN 93:27116 USPATFULL
 TI Porphyrin insecticides
 IN Rebeiz, Constantin A., Urbana, IL, United States
 Juvik, John A., Champaign, IL, United States
 Rebeiz, Carole C., Urbana, IL, United States
 PA The Board of Trustees of the Univ. of Illinois, Urbana, IL, United States (U.S. corporation)
 PI US 5200427 19930406
 AI US 1989-294132 19890109 (7)
 RLI Continuation-in-part of Ser. No. US 1988-144883, filed on 13 Jan 1988, now abandoned which is a continuation-in-part of Ser. No. US 1986-895529, filed on 11 Aug 1986 which is a continuation of Ser. No. US 1985-754092, filed on 15 Jul 1985, now abandoned which is a continuation-in-part of Ser. No. US 1984-634932, filed on 27 Jul 1984, now abandoned
 DT Utility
 FS Granted
 LN.CNT 1543
 INCL INCLM: 514/561.000
 INCLS: 514/557.000; 514/292.000; 514/334.000
 NCL NCLM: 514/561.000
 NCLS: 514/292.000; 514/334.000; 514/557.000
 IC [5]
 ICM: A01N037-44
 EXF 514/557; 514/561; 514/559; 514/292; 514/293; 514/300; 514/334
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
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L4 993 S L3 AND INHIBI?
L5 7 S L4 AND PROTOHEM?

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 TI Evaluating ability of compounds to **inhibit**
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 herbicides -

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 TI Evaluating ability of compounds to **inhibit**
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TI Evaluating ability of compounds to **inhibit**
protoporphyrinogen oxidase activity for development of
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- L6 ANSWER 15 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Resistance of a soybean cell line to oxyfluorfen by overproduction of mitochondrial **protoporphyrinogen oxidase**

L6 ANSWER 16 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI **Protoporphyrinogen-IX oxidase inhibitors:**
bioactivation of thiadiazolidines

L6 ANSWER 17 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Synthesis, herbicidal activity, and mode of action of IR 5790

L6 ANSWER 18 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI DNA encoding herbicide-tolerant **protoporphyrinogen oxidase**, plants expressing this DNA, and methods for controlling weed **growth**

L6 ANSWER 19 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI The influence of herbicide Aurora Super 61,5 SG on limitation of cereal weed infestation

L6 ANSWER 20 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI BAS 615H - a new post-emergence herbicide for the control of Galium aparine and other important broadleaf weeds in cereals

L6 ANSWER 21 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Synergistic herbicidal mixtures.

L6 ANSWER 22 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Gene probes used for genetic profiling in healthcare screening and planning

L6 ANSWER 23 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Gene probes used for genetic profiling in healthcare screening and planning

L6 ANSWER 24 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI A method for evaluating the ability of a compound to **inhibit** the **protoporphyrinogen oxidase** activity

L6 ANSWER 25 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Transgenic plants tolerant of herbicidal **inhibitors** of porphyrin biosynthesis

L6 ANSWER 26 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Differential Susceptibilities of Wheat and Barley to Diphenyl Ether Herbicide Oxyfluorfen

L6 ANSWER 27 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI **Inhibition of protoporphyrinogen oxidase**
expression in Arabidopsis causes a lesion-mimic phenotype that induces systemic acquired resistance

L6 ANSWER 28 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Soybean (Glycine max) cultivar differences in response to sulfentrazone

L6 ANSWER 29 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Selectivity and mode of action of carfentrazone-ethyl, a novel phenyl triazolinone herbicide

L6 ANSWER 30 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI The enzymic activation of peroxidizing cyclic isoimide. A new function of glutathione S-transferase and glutathione

L6 ANSWER 31 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Histological changes in rat embryonic blood cells as a possible mechanism for ventricular septal defects produced by an N-phenylimide herbicide

L6 ANSWER 32 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI **Protoporphyrinogen-IX oxidase inhibition** by new diphenyl ethers

L6 ANSWER 33 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Peroxidizing phytotoxicities of 1,2-alkylene-1,2,4-triazolidines and 3,4-alkylene-1,3,4-thiadiazolidines

L6 ANSWER 34 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Effect of the bridgehead and imide moieties on the phytotoxicities caused by peroxidizing imides

L6 ANSWER 35 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Cross-tolerance of oxyfluorfen-tolerant soybean cells to **protoporphyrinogen oxidase-inhibiting** herbicides.

L6 ANSWER 36 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Selection and characterization of **protoporphyrinogen oxidase inhibiting** herbicide (S23142) resistant photomixotrophic cultured cells of *Nicotiana tabacum*

L6 ANSWER 37 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Peroxidizing phytotoxic activity of pyrazoles

L6 ANSWER 38 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Cloning of a human cDNA for **protoporphyrinogen oxidase** by complementation in vivo of a hemG mutant of *Escherichia coli*

L6 ANSWER 39 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Synthesis and Herbicidal Activity of Cyperin

L6 ANSWER 40 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Peroxidizing phytotoxic activity of 1,3,4-thiadiazolidine-2-thiones and 1,2,4-triazolidine-3,5-dithiones

L6 ANSWER 41 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Synthesis and properties of a photoaffinity labeling reagent for **protoporphyrinogen oxidases**, the target enzymes of diphenyl ether herbicides

L6 ANSWER 42 OF 115 CAPLUS COPYRIGHT 2002 ACS

TI Isolation and characterization of a *Chlamydomonas reinhardtii* mutant resistant to photobleaching herbicides

L6 ANSWER 43 OF 115 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Reidentification of facultatively alkaliphilic *Bacillus* sp. C-125 to *Bacillus halodurans*

TITLE (TI): Genetic analysis of the chromosome of alkaliphilic *Bacillus halodurans* C-125

TITLE (TI): An improved physical and genetic map of the genome of alkaliphilic *Bacillus* sp. C-125

TITLE (TI): Replication origin region of the chromosome of alkaliphilic *Bacillus halodurans* C-125

TITLE (TI): Sequence analysis of a 32-kb region including the major ribosomal protein gene clusters from alkaliphilic *Bacillus* sp. strain C-125

TITLE (TI): Genome analysis of facultatively alkaliphilic *Bacillus halodurans* C-125

TITLE (TI): Sequencing of three lambda clones from the genome of alkaliphilic Bacillus sp. strain C-125

TITLE (TI): Analysis of the genome of an alkaliphilic Bacillus strain from an industrial point of view

TITLE (TI): Characterization and comparative study of the rrn operons of alkaliphilic Bacillus halodurans C-125

TITLE (TI): Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and genomic sequence comparison with Bacillus subtilis

TITLE (TI): Direct Submission

- L6 ANSWER 44 OF 115 SCISEARCH COPYRIGHT 2002 ISI (R)
- TI Lipid peroxidation and membrane disruption by vinclozolin in dicarboximide-susceptible and -resistant isolates of Botrytis cinerea
- L6 ANSWER 45 OF 115 SCISEARCH COPYRIGHT 2002 ISI (R)
- TI PHYSIOLOGICAL-BASIS FOR DIFFERENTIAL SENSITIVITY TO SULFENTRAZONE BY SICKLEPOD (SENNA-OBTUSIFOLIA) AND COFFEE SENNA (CASSIA-OCCIDENTALIS)
- L6 ANSWER 46 OF 115 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
- TI The physiological basis of resistance to the dicarboximide fungicide iprodione in Botrytis cinerea.
- L6 ANSWER 47 OF 115 TOXLIT
- TI DNA encoding herbicide-tolerant **protoporphyrinogen oxidase**, plants expressing this DNA, and methods for controlling weed **growth**.
- L6 ANSWER 48 OF 115 TOXLIT
- TI Transgenic plants tolerant of herbicidal **inhibitors** of porphyrin biosynthesis.
- L6 ANSWER 49 OF 115 TOXLIT
- TI A method for evaluating the ability of a compound to **inhibit** the **protoporphyrinogen oxidase** activity.
- L6 ANSWER 50 OF 115 MEDLINE
- TI Very-long-chain fatty acid biosynthesis is **inhibited** by cafenstrole, N,N-diethyl-3-mesitylsulfonyl-1H-1,2,4-triazole-1-carboxamide and its analogs.
- L6 ANSWER 51 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
- TI Selective weed control by applying **protoporphyrinogen oxidase inhibitor** to modified crop plants that are resistant to the **inhibitor** at normal application rates.
- L6 ANSWER 52 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
- TI The evolution of plant protection product use in farming: I. Herbicides.
- L6 ANSWER 53 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
- TI Valor herbicide - the new standard for layby applications in cotton.
- L6 ANSWER 54 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
- TI Prolonged control of weeds in crops tolerant to **protoporphyrinogen oxidase-inhibiting** herbicides comprises pre-emergence application of isoxazole or dione herbicide
- L6 ANSWER 55 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
- TI Use of a mixture of thidiazuron or thidiazuron and diuron with one or more **protoporphyrinogen-(IX) oxidase inhibitors**, for effecting leaf abscission of plants.

L6 ANSWER 56 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Altered target sites as a mechanism of herbicide resistance.

L6 ANSWER 57 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Carfentrazone-ethyl. Cereal herbicide.
(La carfentrazone-ethyle. Herbicide cereales)

L6 ANSWER 58 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Cinidon-ethyl. Cereal herbicide.

L6 ANSWER 59 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Control of weeds in tolerant maize crops uses herbicidal combination containing glufosinate, glyphosate, imidazolinone, azole, cyclohexanedione or heteroaryloxyphenoxypropionic acid herbicide.

L6 ANSWER 60 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Use of a synergistic herbicide combination including a glufosinate- or glyphosate-type, imidazolinone, **protoporphyrinogen oxidase inhibitory** azole or cyclohexanedione herbicide to control weeds in maize.

L6 ANSWER 61 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Use of a synergistic herbicide combination including glufosinate- or glyphosate-type, imidazolinone or **protoporphyrinogen oxidase inhibitory** azole herbicide to control weeds in oil seed rape.

L6 ANSWER 62 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Use of a synergistic herbicide combination including a glufosinate- or glyphosate-type, imidazolinone or **protoporphyrinogen oxidase inhibitory** azole herbicide to control weeds in cereals.

L6 ANSWER 63 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Use of a synergistic herbicide combination including a glufosinate- or glyphosate-type, imidazolinone or **protoporphyrinogen oxidase inhibitory** azole herbicide to control weeds in soya.

L6 ANSWER 64 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Use of synergistic herbicide combination including glufosinate- or glyphosate-type, imidazolinone, **protoporphyrinogen oxidase inhibitory** azole or hydroxybenzotrile herbicide, to control weeds in cotton.

L6 ANSWER 65 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Use of a synergistic herbicidal combination including a glufosinate- or glyphosate-type, imidazolinone or **protoporphyrinogen oxidase** to control weeds in rice.

L6 ANSWER 66 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Herbicidal composition for selective control of weeds and grasses in crops that are resistant to **protoporphyrinogen oxidase inhibitors**.

L6 ANSWER 67 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Synergistic herbicidal composition for e.g. maize, soya or cotton.

L6 ANSWER 68 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
TI Biochemical mechanisms of action of herbicides and the impact of biotechnology on the development of herbicides.

L6 ANSWER 69 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD

TI Synergistic herbicidal composition for selective weed control comprises **protoporphyrinogen oxidase inhibitor** and other herbicide.

L6 ANSWER 70 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Synergistic herbicidal composition for selective weed control comprising **protoporphyrinogen oxidase inhibitor** and other herbicide.

L6 ANSWER 71 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Pesticide Posters - Lexus Class against grasses and weeds in cereals. (Pflanzenschutzmittel-Steckbriefe. Lexus Class - gegen Unkraeser und Unkraeuter in Getreide)

L6 ANSWER 72 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Herbicide resistance extension strategy for the south eastern wheat belt of New South Wales, Australia.

L6 ANSWER 73 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Effects of diphenyl-ether herbicides on human erythropoiesis in vitro.

L6 ANSWER 74 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Activity of JV 485, a **protoporphyrinogen oxidase inhibitor**, on herbicide-resistant black-grass (*Alopecurus myosuroides*).

L6 ANSWER 75 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Soybean (*Glycine max*) cultivar differences in response to sulfentrazone.

L6 ANSWER 76 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI New DNA encoding plant **protoporphyrinogen oxidase**, and herbicide resistant mutants, useful in production of herbicide-resistant crop plants, improving herbicide selectivity.

L6 ANSWER 77 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Efficacy of F8426 on field corn.

L6 ANSWER 78 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Enzymatic conversion of isoimide-type peroxidizing herbicides into more active amides.

L6 ANSWER 79 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Activity of Peroxidizing Herbicides: Quantitative Correlation of Cellular Parameters.

L6 ANSWER 80 OF 115 CROPU COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Basic Research on the Mode of Action of Herbicides. (Grundlagenforschung zur Wirkungsweise von Unkrautkontrollmitteln)

L6 ANSWER 81 OF 115 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
 TI Plasma pharmacokinetics and tissue distribution of a N-pyrrolo[1,2-c]imidazolylphenyl sulfonamide in rats.

L6 ANSWER 82 OF 115 CABA COPYRIGHT 2002 CABI
 TI Pre and post flush application of DuPont R6447 in hybrid poplar plantations.

L6 ANSWER 83 OF 115 CABA COPYRIGHT 2002 CABI
 TI Herbicide "friendly fire".

L6 ANSWER 84 OF 115 AGRICOLA
 TI Structure-activity relationships of herbicidal aryltriazolinones.

L6 ANSWER 85 OF 115 AGRICOLA
 TI Species difference in protoporphyrin IX accumulation produced by an N-phenylimide herbicide in embryos between rats and rabbits.

L6 ANSWER 86 OF 115 WPIDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Herbicidal compositions for controlling unwanted plant vegetation.

L6 ANSWER 87 OF 115 USPATFULL
 TI Method of finding **protoporphyrinogen oxidase inhibitors**

L6 ANSWER 88 OF 115 USPATFULL
 TI Methods for identifying drug targets based on genomic sequence data

L6 ANSWER 89 OF 115 USPATFULL
 TI Herbicidal composition

L6 ANSWER 90 OF 115 USPATFULL
 TI DNA comprising rice anther-specific gene and transgenic plant transformed therewith

L6 ANSWER 91 OF 115 USPATFULL
 TI Compositions and methods for controlling algae in recirculating water systems

L6 ANSWER 92 OF 115 USPATFULL
 TI Herbicide-tolerant plants and methods of controlling the **growth** of undesired vegetation

L6 ANSWER 93 OF 115 USPATFULL
 TI Methods for using functional site descriptors and predicting protein function

L6 ANSWER 94 OF 115 USPATFULL
 TI Controlling protein levels in eucaryotic organisms

L6 ANSWER 95 OF 115 USPATFULL
 TI Herbicidal compositions for tolerant or resistant rice crops

L6 ANSWER 96 OF 115 USPATFULL
 TI Method for conferring herbicide, pest, or disease resistance in plant hosts

L6 ANSWER 97 OF 115 USPATFULL
 TI Genes encoding proteins essential for plant **growth** and methods of use

L6 ANSWER 98 OF 115 USPATFULL
 TI Methods for making male-sterile plants

L6 ANSWER 99 OF 115 USPATFULL
 TI Methods and compositions for regulating cell death and enhancing disease resistance to plant pathogens

L6 ANSWER 100 OF 115 USPATFULL
 TI Inbred maize line <<NP2141>>

L6 ANSWER 101 OF 115 USPATFULL
 TI Combination of glyphosate and a triazolinone herbicide

L6 ANSWER 102 OF 115 USPATFULL
 TI Herbicidal compositions and processes based on ferredoxin:NADP reductase **inhibitors**

L6 ANSWER 103 OF 115 USPATFULL
 TI Synergistic herbicidal mixtures containing cyclohexenone oxime ethers

L6 ANSWER 104 OF 115 USPATFULL
 TI Soybean cultivar M003360

L6 ANSWER 105 OF 115 USPATFULL
 TI Methods for producing polypeptides in respiratory-deficient cells

L6 ANSWER 106 OF 115 USPATFULL
 TI Use of benzyluracils for controlling weeds in cereal crops

L6 ANSWER 107 OF 115 USPATFULL
 TI Method and composition for photodynamic treatment and detection of tumors

L6 ANSWER 108 OF 115 USPATFULL
 TI Porphyrin insecticides

L6 ANSWER 109 OF 115 USPATFULL
 TI Porphyrin insecticides

L6 ANSWER 110 OF 115 USPATFULL
 TI Herbicidal compounds

L6 ANSWER 111 OF 115 BIOBUSINESS COPYRIGHT 2002 BIOSIS
 TI Peroxidizing phytotoxicities of 1,2-dialkyl-1,2,4-triazolidines and 3,4-dialkyl-1,3,4-thiadiazolidines.

L6 ANSWER 112 OF 115 BIOBUSINESS COPYRIGHT 2002 BIOSIS
 TI Selectivity and mode of action of carfentrazone-ethyl, a novel phenyl triazolinone herbicide.

L6 ANSWER 113 OF 115 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Plant DNA molecules encoding herbicide-tolerant forms of **protoporphyrinogen-oxidase** which are useful for rationally designing new **inhibitory** herbicides and for producing herbicide-tolerant transgenic plants and seeds; transgenic plant construction via vector expression in host cell

L6 ANSWER 114 OF 115 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Selection of plants tolerant to herbicide, by application of the herbicide to the seeds, providing conditions for germination, and selecting plants which grow; for use in the preparation of **protoporphyrinogen-IX-oxidase inhibitor** herbicide resistance seeds and plants

L6 ANSWER 115 OF 115 BIOTECHDS COPYRIGHT 2002 DERWENT INFORMATION LTD
 TI Conferring resistance to herbicides that **inhibit protoporphyrinogen-oxidase**; by introducing DNA that encodes a resistant form of the enzyme, also resistant transgenic plants and algae, mutant DNA, vectors and transformed organisms

=> d 16 1 18 24 32 36 38 49 87

L6 ANSWER 1 OF 115 DGENE COPYRIGHT 2002 DERWENT INFORMATION LTD
 AN AAY49538 Protein DGENE
 TI Evaluating ability of compounds to **inhibit protoporphyrinogen oxidase** activity for development of

herbicides -
IN Shimokawatoko Y; Nishio S
PA (SUMO) SUMITOMO CHEM CO LTD.
PI EP 955380 A2 19991110
AI EP 1999-107037 19990409
PRAI JP 1998-99619 19980410
DT Patent
LA English
OS 1999-612726 [53]

46p

L6 ANSWER 18 OF 115 CAPLUS COPYRIGHT 2002 ACS
AN 2001:137389 CAPLUS
DN 134:189008

TI DNA encoding herbicide-tolerant **protoporphyrinogen oxidase**, plants expressing this DNA, and methods for controlling weed **growth**

IN Johnson, Marie Ann; Volrath, Sandra Lynn; Heifetz, Peter Bernard; Law, Marcus Dixon

PA Syngenta Participations A.-G., Switz.

SO PCT Int. Appl., 228 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012825	A1	20010222	WO 2000-EP6127	20000630
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI US 1999-373691 A 19990813

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 24 OF 115 CAPLUS COPYRIGHT 2002 ACS
AN 1999:722796 CAPLUS
DN 131:333000

TI A method for evaluating the ability of a compound to **inhibit** the **protoporphyrinogen oxidase** activity

IN Shimokawatoko, Yasutaka; Nishio, Shoichi

PA Sumitomo Chemical Company, Limited, Japan

SO Eur. Pat. Appl., 46 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 955380	A2	19991110	EP 1999-107037	19990409
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AU 9923649	A1	19991021	AU 1999-23649	19990408
	JP 11346787	A2	19991221	JP 1999-102534	19990409
PRAI	JP 1998-99619		19980410		

L6 ANSWER 32 OF 115 CAPLUS COPYRIGHT 2002 ACS
AN 1996:545870 CAPLUS

DN 125:268115
 TI **Protoporphyrinogen-IX oxidase inhibition by**
 new diphenyl ethers
 AU Sumida, Motoo; Kohno, Hitoshi; Shouda, Kou; Fukami, Harukazu; Tanaka,
 Takaharu; Wakabayashi, Ko; Boeger, Peter
 CS Res. Cent., Suntory, Ltd., Osaka, 618, Japan
 SO Nippon Noyaku Gakkaishi (1996), 21(3), 317-321
 CODEN: NNGADV; ISSN: 0385-1559
 DT Journal
 LA English

L6 ANSWER 36 OF 115 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:837406 CAPLUS
 DN 123:251596
 TI Selection and characterization of **protoporphyrinogen**
oxidase inhibiting herbicide (S23142) resistant
 photomixotrophic cultured cells of *Nicotiana tabacum*
 AU Ichinose, Katsunori; Che, Fang-Sik; Kimura, Yukio; Matsunobu, Atsuko;
 Sato, Fumihiko; Yoshida, Shigeo
 CS Inst. Phys. Chem. Res. (RIKEN), Saitama, 351-01, Japan
 SO J. Plant Physiol. (1995), 146(5/6), 693-8
 CODEN: JPPHEY; ISSN: 0176-1617
 DT Journal
 LA English

L6 ANSWER 38 OF 115 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:500282 CAPLUS
 DN 123:279462
 TI Cloning of a human cDNA for **protoporphyrinogen oxidase**
 by complementation in vivo of a hemG mutant of *Escherichia coli*
 AU Nishimura, Koichi; Taketani, Shigeru; Inokuchi, Hachiro
 CS Faculty of Science, Kyoto University, Kyoto, 606-01, Japan
 SO J. Biol. Chem. (1995), 270(14), 8076-80
 CODEN: JBCHA3; ISSN: 0021-9258
 DT Journal
 LA English

L6 ANSWER 49 OF 115 TOXLIT
 AN 1999:94608 TOXLIT
 DN CA-131-333000G
 TI A method for evaluating the ability of a compound to **inhibit** the
protoporphyrinogen oxidase activity.
 AU Shimokawatoko Y; Nishio S
 SO (1999). Eur. Pat. Appl. PATENT NO. 955380 11/10/1999 (Sumitomo Chemical
 Company, Limited).
 CODEN: EPXXDW.
 CY JAPAN
 DT Patent
 FS CA
 LA English
 OS CA 131:333000
 EM 199912

L6 ANSWER 87 OF 115 USPATFULL
 AN 2002:22125 USPATFULL
 TI Method of finding **protoporphyrinogen oxidase**
inhibitors
 IN Schallner, Otto, Monheim, GERMANY, FEDERAL REPUBLIC OF
 Zitzmann, Werner, Leverkusen, GERMANY, FEDERAL REPUBLIC OF
 Tietjen, Klaus-Gunther, Langenfeld, GERMANY, FEDERAL REPUBLIC OF
 PI US 2002012960 A1 20020131
 AI US 2001-897233 A1 20010702 (9)
 PRAI DE 2000-10032633 20000705

DT Utility
FS APPLICATION
LN.CNT 983
INCL INCLM: 435/025.000
NCL NCLM: 435/025.000
IC [7]
ICM: C12Q001-26

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(FILE 'HOME' ENTERED AT 16:35:30 ON 11 FEB 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:35:44 ON
11 FEB 2002

SEA PROTOPORPHYRINOG? AND OXIDAS?

1 FILE ADISALERTS
1 FILE ADISNEWS
100 FILE AGRICOLA
7 FILE ANABSTR
3 FILE AQUASCI
33 FILE BIOBUSINESS
5 FILE BIOCOMMERCE
348 FILE BIOSIS
25 FILE BIOTECHABS
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146 FILE CABA
22 FILE CANCERLIT
452 FILE CAPLUS
8 FILE CEABA-VTB
1 FILE CEN
6 FILE CIN
6 FILE CONFSCI
218 FILE CROPU
4 FILE DDFU
483 FILE DGENE
5 FILE DRUGU
1 FILE EMBAL
188 FILE EMBASE
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1 FILE FROSTI
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34 FILE IFIPAT
38 FILE JICST-EPLUS
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221 FILE MEDLINE
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360 FILE SCISEARCH
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248 FILE TOXLIT
56 FILE USPATFULL
63 FILE WPIDS
63 FILE WPINDEX
1 FILE IPA
5 FILE NLDB

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FILE 'DGENE, CAPLUS, GENBANK, SCISEARCH, BIOSIS, TOXLIT, MEDLINE, CROPU,
TOXCENTER, EMBASE, PASCAL, CABA, BIOTECHNO, ESBIODBASE, AGRICOLA, LIFESCI,
WPIDS, USPATFULL, JICST-EPLUS, IFIPAT, BIOBUSINESS, BIOTECHDS, CANCERLIT'
ENTERED AT 16:37:41 ON 11 FEB 2002

L2 4140 S PROTOPORPHYRINOG? AND OXIDAS?
L3 1884 DUP REM L2 (2256 DUPLICATES REMOVED)
L4 993 S L3 AND INHIBI?
L5 7 S L4 AND PROTOHEM?

FILE 'STNGUIDE' ENTERED AT 16:50:43 ON 11 FEB 2002

FILE 'DGENE, CAPLUS, GENBANK, SCISEARCH, BIOSIS, TOXLIT, MEDLINE, CROPU,
TOXCENTER, EMBASE, PASCAL, CABA, BIOTECHNO, ESBIODBASE, AGRICOLA, LIFESCI,
WPIDS, USPATFULL, JICST-EPLUS, IFIPAT, BIOBUSINESS, BIOTECHDS, CANCERLIT'
ENTERED AT 17:01:58 ON 11 FEB 2002

L6 115 S L4 AND GROWT?

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

42.38

98.83

FILE 'STNGUIDE' ENTERED AT 17:14:32 ON 11 FEB 2002

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Feb 8, 2002 (20020208/UP).

=> log h

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.00

98.83

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 17:20:36 ON 11 FEB 2002